

Overview

Synonyms	CINC-3; GRO beta; MGSA-beta; MIP-2
Description	Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also referred to as macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. CXCL2's amino acid sequence is 90% identical to the amino acid sequence of related chemokine, CXCL1. CXCL2 signals through the CXCR2 receptor. Recombinant Mouse MIP-2/CXCL2 produced in HEK 293 cells is a polypeptide chain containing 73 amino acids. A fully biologically active molecule, rmMIP-2/CXCL2 has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P10889
Source	HEK 293
Biological Activity	The EC ₅₀ value of Mouse MIP-2/CXCL2 on Ca ²⁺ mobilization assay in CHO-K1/mCXCR2 (mouse CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/ml.
Sequence	AVVASELRQC CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGQKV CLDPEAPLVQ KIIQKILNKG KAN

Properties

Measured Molecular Weight	7.8 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse MIP-2/CXCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MIP-2/CXCL2 should be stable up to 1 week at 4°C or up to 2 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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